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U.S. PATENT DOCUMENTS

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	_				A		PRIATE
U	1	49,053	07/25/1865	Bessemer	MAD	Č_	
<u> </u>	2	4,142,571	03/06/1979	Narasimhan	10 1	V/L	
V	3	4,268,564	05/19/1981	Narasimhan	10/s	102 CD	
प	4	4,705,095	11/10/1987	Gaspar	1		
U	5	6,099,913	8/8/2000	Clarke et al.	0	2	

FOREIGN PATENT DOCUMENTS

`,	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Ū	6	Kavesh, "Principles of Fabrication," Gilman, eds., Metallic Glasses, ASM, Metals Park, pp. 36-73 (1978)						
1	7	Jones, "Rapid Solidification of Metals and Alloys," Gilman et al. (eds.), Metallic Glasses, Institution of Metallurgists,						
		London, pp. 1-83 (1982)						
	8	ones, "Review: The Status of Rapid Solidification of Alloys in Research and Application," Journal of Materials						
		Science, 19:1043-1076 (1984)						
	9	Beldon, "Commercializing A New Product," ChE Progress, pp. 27-29 (1985)						
	10	Birat et al., "Near Net Shape Continuous Casting Of Flat Products At IRSID," La Revue de Métallurgie - CIT						
		86:919-930 (1989)						
	11	Anestiev, "An Analysis of the Dependence Between the Ribbon Dimensions and the Technological Parameters for the						
$\sqrt{}$		Planar Flow Casting Method," Materials of Science and Engineering. A131:115-121 (1991)						
	12	Carpenter et al., "Fluid Mechanics An Heat Transfer Of Planar-Flow Melt Spinning," Modeling Of Casting, Welding						
٨		and Advanced Solidification Processes V, Rappaz et al. (eds.), Warrendale, PA:TMS, pp. 621-627 (1991)						
AMINER) W	DATE CONSIDERED (1/4)						

not considered. Include copy of this form with next communication to applicant.

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U.S. DEPARTMENT OF COMMERCE	ATTY. DOCKET NO.	3	SERIAL NO.				
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO- PRIATE
<u>`</u>						

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

	13	Gong et al., "Numerical Modelling Of The Planar Flow Melt-Spinning Process And Experimental Investigation Of Its					
U		Solidification Puddle Dynamics," International Journal of Rapid Solidification. 6:1-28 (1991)					
	14	Wang et al., "Modelling Of Rapid Solidification By Melt Spinning: Effect Of Heat Transfer In The Cooling					
		Substrate," Materials Science and Engineering, A136:85-97 (1991)					
	15	Birat, "Direct Casting of Thin Strip Steel," Endeavour, New Series, 16:110-116 (1992)					
	16	Carpenter et al., "Plannar-Flow Spin-Casting Of Molten Metals: Process Behavior," Journal of Materials Science,					
		27:215-225 (1992)					
	17	Praisner, et al., "An Experimental Study of Process Behavior in Planar Flow Melt Spinning," Metallurgical and					
		Materials Transactions B, 26B:1199-1208 (1995)					
	18	G. Li and B. G. Thomas, "Transient Thermal Model Of The Continuous Single-Wheel Thin-Strip Casting Process,"					
		Proc. Int. Symp on Near-Net-Shape Casting in the Minimills, Vancourver, Canada August 19-23, 1995, Canadian					
		Institute of Mining, Metallurgy, and Petroleum, Montreal, Canada, pp. 373-387 (1995).					
	19	Ibaraki, "Planar Flow Melt-Spinning: Experimental Investigation On Solidification, Dynamics Of The Liquid Puddle					
K		And Process Operability," Master's Thesis, Cornell University (1996)					
EXAMINER \		DATE CONSIDERED /					
	Zy	W 12/2/03					
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANS- LATION IF APPRO-

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

/	20	Li et al., "Transient Thermal Model of the Continuous Single-Wheel Casting of Thin Steel Strip," Metallurgical and					
u		Materials Transactions B, 27B:509-525 (1996)					
,	21	Carpenter et al., "Heat Transfer And Solidification In Planar-Flow Melt-Spinning: High Wheelspeeds, International					
		Journal of Heat Mass Transfer, 40(9):1993-2007 (1997)					
	22	Steen et al., "Fluid Mechanics Of Spin Casting," Ann. Rev. Fluid Mechanics, 29:373-397 (1997)					
	23	Chen et al., "Modeling And Optimization Of Nozzle Design In Planar Flow Melt Spinning," MED Manufacturing					
		Science And Engineering (ASME), 10:79-85 (1999)					
	24	Steen et al., "Contacting And Forming Singularities: Distinguishing Examples," Chaos, 9(1):164-172 (1999)					
17	25	Walranch et al., "The Early Stages In Aluminum Solidification In the Presence Of A Moving Meniscus,"					
		Zabaras eds., The Integration Of Material, Process And Product Design, Balkema, Rotterdam, pp. 183-191 (1999)					
d	26	Kuhn, "Unsteady Behavior Of The Planar Flow Spin-Casting Process," Master's Thesis, Cornell University					
V		p. 47 (2000)					
	27	Plaschko et al., "Stability Of Two-Dimensional Strip Casting Processes," Physics of Fluids, 12(6): 1319-1326 (2000)					
M							
EXAMINER	eg	DATE CONSIDERED 12 12 13					
		mb					
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U.S. PATENT DOCUMENTS

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,						A 1

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

		28	Karcher et al., "High-Reynolds-Number Flow In A Narrow Gap Driven By Solidification, I. Theory,"				
u			Physics of Fluids, 13(4):826-833 (2001)				
		29	Karcher et al., "High-Reynolds-Number Flow In A Narrow Gap Driven By Solidification, II. Planar-Flow Casting				
			Application," Physics of Fluids, 13(4):834-840 (2001)				
		30	Reed, "Planar-Flow Spin Casting: Momentum Transport, Verticity Transport, And Texture Formation," PhD Thesis,				
			Cornell University pp. 104-106 (2001)				
		31	Reed et al., "Vorticity Transport In Solidification Boundary Layers," J. Fluid Mech., 426:397-406 (2001)				
V							
4	-	32	Steen et al., "Solidification-Induced Secondary Flows In Spin Casting," Ehrhard eds., Interactive Dynamics Of				
U			Convection And Solidification, Kluwer Academic Publishers, Netherlands, pp. 145-153 (2001)				
4.7							
EXAMINE	R	<i>ŋ</i> —	DATE CONSIDERED /1/2/03				
		gn	W 14403				
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